CURRICULUM VITAE

Mark David Carlson, M.D., MA

ADDRESS: Department of Medicine

University Hospitals of Cleveland

11100 Euclid Avenue Cleveland, OH 44106 Office: (216) 844-7693

PRESENT APPOINTMENTS:

2002- Robert Wood Johnson Health Policy Fellow, Institute of Medicine, Washington D.C.

2001- Professor of Medicine, Case Western Reserve University

1995- Vice Chairman for Clinical Programs, Department of Medicine, University Hospitals of

Cleveland

1988- Physician, University Hospitals of Cleveland

EDUCATION:

B.S. Kansas State University, College of Arts and Sciences (Biology)

M.D. University of Kansas School of Medicine (Medicine)

M.A. Duke University (Policy Science and Public Affairs)

Case Western Reserve University, Weatherhead School of Management, Executive

Leadership Program

University of Pennsylvania, The Wharton School, Executive Management Program for Chairs

of Departments of Medicine

POSTDOCTORAL TRAINING:

Internship and Residencies:

Intern in Medic ine, University Hospitals of Cleveland, Case Western Reserve University, Cleveland, Ohio.

Resident in Medicine, University Hospitals of Cleveland, Case Western

Reserve University, Cleveland, Ohio.

Research Fellow in Medicine (Cardiology), Harvard Medical School, Boston, MA.

Clinical and Research Fellow in Medicine (Cardiology), Massachusetts General Hospital,

Boston, MA.

Clinical and Research Fellow in Electrophysiology and Arrhythmias, Massachusetts General

Hospital, Boston, MA.

BOARD CERTIFICATION:

American Board of Internal Medicine

American Board of Internal Medicine, Cardiovascular Disease Subspecialty

American Board of Internal Medicine, Clinical Cardiac Electrophysiology Subspecialty

PREVIOUS UNIVERSITY APPOINTMENTS:

Graduate Assistant Instructor in Public Policy, Duke University, Durham, NC

Research Fellow in Medicine (Cardiology), Harvard Medical School, Boston, MA

1988-95 Assistant Professor of Medicine, Case Western Reserve University School of

Medicine, Cleveland, OH

1995-2001 Associate Professor of Medicine, Case Western Reserve University

PREVIOUS HOSPITAL APPOINTMENTS:

Clinical and Research Fellow in Medicine (Cardiology), Massachusetts General Hospital,

Boston, MA

1988- Physician, University Hospitals of Cleveland, Cleveland, OH

1988-94 Director, Cardiac Electrophysiology Laboratory

1994-95 Director, Clinical Cardiac Electrophysiology, University Hospitals of Cleveland

AWARDS AND HONORS:

Eagle Scout

Phi Eta Sigma Honor Society Phi Kappa Phi Honor Society

H. Henley Haymaker Award for Excellence in Biology Graduated Magna Cum Laude, Kansas State University

Alpha Omega Alpha

Academic Scholarship, Duke University Graduate School

1990 Bayer Fund Award for Cardiovascular Research 2001 United Way Volunteer Award, Cleveland, OH

NATIONAL AND INTERNATIONAL SCIENTIFIC ACTIVITY

| 1993- N | Morbidity and Moi | tality Events Classifica | tion Committee, Member, | Cardiac Pacemakers, |
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Inc.

1994-95 Safety and Efficacy of Bidisomide for Atrial Arrhythmias (AFIB), Searle Inc., Morbidity &

Mortality Events Committee Member.

1994-96 Antiarrhythmics vs. Implantable Defibrillator Trial (AVID), National Heart Lung and Blood

Institute, Device Committee, Member (This committee has scientific oversight for issues

related to device selection and use in the study).

1995- Efficacy and Safety of Azimilide for Atrial Fibrillation, Morbidity and Mortality Events

Committee, Member, Proctor & Gamble.

1995- Arrhythmia Events Classification Committee Azimilide for Atrial Fibrillation Trials, Proctor

and Gamble.

1996-97 Efficacy of Dofetilide in Patients with Implantable Cardioverter Defibrillators, Arrhythmia

Events Classification Committee, Member, Pfizer.

1996 National Institute of Health General Clinical Research Center Study Section, site visit,

Northwestern University Medical Center.

1997- Sudden Cardiac Death in Heart Failure Trial, National Heart Lung and Blood Institute,

Mortality and Morbidity Events Committee. Member.

| 1997, 2000 | University of California, Tobacco-Related Disease Research Program, Study Section Member, Oakland, CA. |
|------------|---|
| 1997- | Morbidity and Mortality Events Classification Committee Member, St. Jude Cardiac Rhythm Management. |
| 1998- | Morbidity and Mortality Events Committee Member, Guidant ICD& Pacemaker Trials. |
| 1998-2000 | Biphasic Cardioversion Trial, Data Safety and Monitoring Board Member, Hewlett-Packard Co. |
| 1998-2000 | Rhythmol Atrial Fibrillation Trial, Morbidity and Mortality Events Committee Member, Knoll Pharmaceutical Co. |
| 1999- | Morbidity & Mortality Events Classification Committee Member, CONTAK CD Trial, Guidant. |
| 2000- | Food and Drug Administration Medical Devices Dispute Resolution Panel Member. |
| 2001- | Harrison's Principals of Internal Medicine, Section Reviewer. |
| 2002 | Data Safety Monitoring Board, St. Jude Cardiac Rhythm management |

PROFESSIONAL MEMBERSHIPS:

| 1985 | Paul Dudley WhiteSociety |
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| 1989 | Fellow, American Heart Association Council on Clinical Cardiology |
| 1989 | Fellow, American College of Cardiology |
| 1989 | Fellow, American College of Chest Physicians |
| 1989 | Member, American Federation for Clinical Research |
| 1989 | Member, Northeast Ohio Society of Pacing and Electrophysiology |
| 1989 | Member, American Heart Associate Northeast Ohio Affiliate |
| 1990 | Member, North American Society of Pacing and Electrophysiology |
| 1991 | Member, American College of Cardiology, Ohio Chapter |
| 1993 | Fellow, American Heart Association Council on Circulation. |
| 1996-1999 | Member, Central Society of Clinical Research |
| | |

PROFESSIONAL SOCIETY COMMITTEES AND SERVICE:

| 1992-98 | North American Society of Pacing and Electrophysiology (NASPE), Ethics Committee, Co |
|-----------|---|
| | Chairman. |
| 1992-96 | North American Society for Pacing and Electrophysiology (NASPE), Government Relations |
| | Subcommittee on Manpower and Education. |
| 1992- | American Heart Association, Committee on Scientific Sessions Program, Consultant on |
| | Grading Abstracts |
| 1992-96 | American College of Cardiology, Ohio Chapter, Government Relations Committee. |
| 1993-95 | American Heart Association, Northeast Ohio and Indiana Affiliates, Research Study Section. |
| 1993- | North American Society of Pacing and Electrophysiology (NASPE), Consultant on Grading |
| | Abstracts. |
| 1994-95 | Scientific Program Committee, World Symposium on Pacing and Electrophysiology |
| 1994- | Argentina National Program for the Study and Treatment of Cardiac Arrhythmias, |
| | International Advisor |
| 1996-98 | Board of Trustees, American Heart Association, Northeast Ohio Affiliate, Member |
| 1997 | Ethics in Cardiovascular Medicine, Task Force, American College of Cardiology, 29 |
| | Bethesda Conference |
| 1997 | North American Society of Pacing and Electrophysiology (NASPE), Committee on Health |
| | Policy (CHP), Work Force Subcommittee Member |
| 1998-2000 | President Elect, American Heart Association, Cleveland Metro Division |
| 1998-2000 | North American Society of Pacing and Electrophysiology (NASPE), Ethics Committee, |
| | Member |
| 1998- | American College of Cardiology Representative to the Section Council on Cardiology, |
| | American Medical Association, /North American Society of Pacing and Electrophysiology, |
| 2000- | President, American Heart Association, Cleveland Metro Division |
| 2000- | Board of Trustees, North American Society for Pacing and Electrophysiology, Member. |
| 2001- | American College of Cardiology Self Assessment Program Section Author; Atrial Fibrillation. |
| 2001/2002 | North American Society of Pacing and Electrophysiology/Heart Failure Society of America, |
| | Position Statement Committee. |
| 2002 | North American Society of Pacing and Electrophysiology, Structure and Governance Task |
| | Force, Member. |

EDITORIAL BOARD:

1997-2001 Health News Heart Watch, New England Journal of Medicine, Massachusetts

Medical Society

MANUSCRIPT REVIEWER:

Journal of the American College of Cardiology

The American Journal of Cardiology

Hypertension Circulation

British Heart Journal

Journal of Cardiac Electrophysiology

Journal of Interventional Cardiac Electrophysiology

Annals of Internal Medicine

TEACHING EXPERIENCE:

| | Graduate Assistant Instructor in Public Policy, Duke University. |
|---------|---|
| 1986-87 | Instructor in Cardiac Physiology, Massachusetts General Hospital, Institute of Health |
| | Professions. |
| 1986-88 | Attending Physician, Coronary Care Unit, Massachusetts General Hospital |
| 1988-90 | Electrocardiography Teaching Conference, University Hospitals of Cleveland. |
| 1988- | Attending Physician, Adult Electrophysiology Laboratory, University Hospitals of Cleveland. |
| 1988- | Attending Physician, Adult Cardiac Electrophysiology Service, University Hospitals of |
| | Cleveland. |
| | Medical School Clerkship, Electrocardiography Teaching Conference, Case Western Reserve |
| | University. |
| 1995-96 | Physiology of Organ Systems, Advanced Cardiovascular Physiology, Case Western Reserve |
| | University, Graduate School |
| | Post Doctoral Fellowship, Dong Gu Shin, M.D., Assistant Professor of Medicine, Yeungnam |
| | University, Taegu, Korea |
| 1997- | Instructor, Arrhythmia Mechanisms and Management, 2°d Year Students, |
| | Case Western Reserve University Medical School |
| | |

INVITED LECTURES:

- 5/90 "Serial Drug Testing for Sustained Ventricular Tachycardia: Specificity and Sensitivity for IA, IB, or IC," North American Society for Pacing and Electrophysiology (NASPE) 1 11th Annual Scientific Sessions.
- 2/91 Medicine Grand Rounds, "Neural Control of the Heart Rhythm: Lessons from Cardiac Fat Pad Stimulation," Case Western Reserve University.
- 5/91 Chairman, "Life after CAST," IXth World Symposium on Cardiac Pacing and Electrophysiology.
- 10/91 Bakken Society Symposium on Onset of Tachyarrhythmias and Techniques for Their Prevention, "Parasympathetic Responses Elicited by Fat Pad Stimulation," St. Paul, MI.
- 11/91 Southwest Clinical Society 69th Annual Fall Clinical Conference, "Proarrhythmia," Overland Park, KS.
- 11/91 Southwest Clinical Society 69th Annual Fall Clinical Conference, "New Therapies for Arrhythmias," Overland Park, KS.
- 5/92 Debate, "Physicians Should be Permitted to Accept Corporate Support for Continuing Medical Education," North American Society for Pacing and Electrophysiology (NASPE) 13th Annual Scientific Sessions.
- 5/92 "Neuropathophysiologic Mechanisms of Syncope," North American Society for Pacing and Electrophysiology (NASPE) 13th Annual Scientific Sessions.
- 3/93 Cardiology Grand Rounds, "Neural Control of the Heart Rhythm," Vanderbilt University, Nashville, TN.
- 3/93 Electrophysiology for Electrophysiologists, "Neural Control of Cardiac Rhythm," "New Insights into Neurally Mediated Syncope," and "Mechanism and Catheter Ablation of Atrial Flutter," Bariloche, Argentina.
- 5/93 Chairman, "Electropharmacology of Antiarrhythmic Drugs," North American Society for Pacing and Electrophysiology (NASPE) 14th Annual Scientific Sessions.
- 5/94 Chairman, "Paroxysmal Atrial Fibrillation Whom and How to Treat," North American Society for Pacing and Electrophysiology (NASPE) 15th Annual Scientific Sessions.
- 5/94 "New and Different Concepts of Cardiac Stimulation," North American Society for Pacing and Electrophysiology (NASPE) 15th Annual Scientific Sessions.
- 6/94 Cardiology Grand Rounds, "Atrial Fibrillation: Mechanisms and Therapy," University of California at Irvine Medical Center, Irvine, California.
- 9/94 Heart of America Cardiology Conference, "Evaluation and Treatment of Supraventricular Tachycardia," American Heart Association Affiliate, Kansas.
- 10/94 Clinical Issues in Primary Care Cardiology, "Radiofrequency Ablation: Candidates, Risks and Outcomes," Case Western Reserve University, Cleveland, OH.

INVITED LECTURES (cont)

- 1/95 Medical Grand Rounds, "Mechanisms and new technologies for atrial fibrillation," Case Western Reserve University.
- 4/95 Electrophysiology Conference, "Electrophysiologic effects of Cardiac Parasympathetic Nerve Simulation," Northwestern University, Chicago, IL.
- 5/95 Core session, "Defibrillation: New ICD technology, New Detection Algorithms," North American Society for Pacing and Electrophysiology, (NASPE) 16th annual Scientific Session.
- 2/96 Cardiology Grand Rounds, "Atrial Defibrillation: New Frontiers," University of Texas Medical Center, Houston, Texas.
- 5/96 Chairman, "Autonomic Nervous System Testing," North American Society for Pacing and Electrophysiology (NASPE), 17th Annual Scientific Session
- 12/96 "Advances in Catheter Ablation of Supraventricular Arrhythmias; The American Experience," International Symposium on Progress in Clinical Pacing. Rome, Italy
- 1/97 Medical Grand Rounds, "The University Hospitals Quality Disease Management Program," Case Western Reserve University.
- 5/97 "Radiofrequency Ablation in the Management of Narrow Complex Tachycardias," 126 Annual International Meeting on Clinical Cardiology, Trans Hellenic Cardiology Society, Athens, Greece.
- 5/97 Chairman, "Noninvasive Predictors and Evaluation of Atrial Fibrillation," North American Society for Pacing and Electrophysiology (NASPE), 18th Annual Scientific Sessions.
- 9/97 Cardiology Grand Rounds, "Parasympathetic Influences on Atrial Electrophysiology," Metro Health Medical Center, Cleveland, OH.
- 10/97 New Technologies of Mapping and Ablation of Atrial Fibrillation," Cardiac Arrhythmias 5th International Workshop. Venice, Italy.
- 10/97 Medical Grand Rounds, "Indications for Implantable Cardioverter Defibrillator," Case Western Reserve University.
- 3/98 "Catheter Ablation of Atrial Tachycardias," American College of Cardiology 47th Annual Scientific Session, Atlanta, Georgia.
- 5/98 Faculty, "Drug Therapy for Atrial Fibrillation," North American Society for Pacing and Electrophysiology (NASPE), 19th Annual Scientific Session.
- 9/98 Cardiology Grand Rounds, "Autonomic Influences on Atrial Electrophysiology," Temple University
- 3/99 "Clinical Decision Making," American College of Cardiology 48th Scientific Session, New Orleans, Louisiana.

INVITED LECTURES (cont)

- 5/99 Chairman, "Current Controversies in Drug Therapy of Arrhythmias," North American Society of Pacing and Electrophysiology, 20'x' Annual Scientific Sessions, Toronto, Ontario, Canada.
- 5/99 "Pacing to Prevent Atrial Fibrillation," Japanese Association for Pacing and Electrophysiology, Okayama, Japan.
- 6/99 "Prevention of Sudden Cardiac Death: The Role of the ICD," Vision 2000 New Concepts in Cardiology, Yeungnam University, Taegu, Korea.
- 6/99 "Mechanism of Atrial Fibrillation: Drugs and Ablation," Vision 2000 New Concepts in Cardiology, Yeungnam University, Taegu, Korea.
- 6/99 Cardiology Grand Rounds, "Non-Pharmacologic Treatment for Atrial Fibrillation," Korea University, Seoul, Korea.
- 6/99 International Workshop (*Latest Developments in Electrophysiology and Their Therapeutic Impacts*)
 "Autonomic Influences on Atrial Fibrillation," Otto-von-Guericke University, Magdeburg, Germany
- 10/99 "Implantable Defibrillators in Congestive Heart Failure," Cleveland Clinic Heart Failure Summit, Cleveland, OH.
- 12/99 Cardiology Grand Rounds, "Management of Atrial Fibrillation," University of California, Irvine, CA.
- 12/99 Cardiology Research Conference, "Autonomic Influences on Atrial Fibrillation," University of California, Irvine, CA.
- 2/00 "Do Antiarrhythmic Drugs Still Have a Role in the Defibrillator Era?" The First Day of Rhythmology in Hasselt, Hasselt, Belgium.
- 3/00 "Radiofrequency Ablation for Ventricular Tachyarrhythmias: Indications and Techniques," American College of Cardiology Scientific Session, Anaheim, CA.
- 5/00 "Acute Management of Atrial Fibrillation," North American Society of Pacing and Electrophysiology, 21St Annual Scientific Session, Washington, D.C.
- 7/00 "Defibrillators in Heart Failure -Who Should Get Them?" American College of Cardiology, The Third Yellowstone Summit on Cardiology Care: Practical Tools for Providing and Improving Performance West Yellowstone, Montana.
- 7/00 "How to Manage Atrial Fibrillation-Update on Recent Trials," American College of Cardiology, The Third Yellowstone Summit on Cardiology Care: Practical Tools for Providing and Improving Performance, West Yellowstone, Montana.
- 9/00 "How to Select and Evaluate Heart Failure Patients for AICDs," Heart Failure Society of America, 4th Scientific Meeting, Boca Raton, Fl.
- 10/00 "Contemporary Management of Atrial Fibrillation," Cardiovascular Grand Rounds, University of Texas Medical Center, Houston, TX.
- 6/01 "Results of the Atrial Dynamic Overdrive Pacing Trial," International Symposium on Interventional Cardiology and Electrophysiology, Monaco.
- 3/02 "Nonpharmacologic Therapy for Atrial Fibrillation", Cardiology Grand Rounds, Kansas University Medical Center, Kansas City, MO.

INVITED LECTURES (cont)

- 5/02 "Prevention of Atrial Fibrillation by Antitachycardia Pacing", North American Society of Pacing and Electrophysiology, 23rd Annual Scientific Session, San Diego, CA.
- 5/02 "Termination of Atrial Fibrillation by Antitachycardia Pacing", North American Society of Pacing and Electrophysiology, 23rd Annual Scientific Session, San Diego, CA.
- 5/02 "How to Measure Outcomes for Cardiac Resynchronization Clinical Trials", Expert Consensus Conference: Resynchronization Therapy for Heart Failure. North American Society for Electrophysiology and Pacing, 23rd Annual Scientific Session, San Diego, CA.
- 5/02 Pacing To Prevent Atrial Fibrillation, Japanes Society for Pacing and Electrophysiology, Toyama, Japan

INVITED CHAIRED SESSIONS

- 5/91 Chairman, "Life after CAST," IXth World Symposium on Cardiac Pacing and Electrophysiology.
- 5/92 Moderator, "Electrophysiologic Testing Following Acute Myocardial Infarction," North American Society for Pacing and Electrophysiology (NASPE) 13th Annual Scientific Sessions.
- 11/92 Moderator, "Heart Rate Variability," American Heart Association 65th Annual Scientific Sessions.
- 5/93 Chairman, "Autonomic Regulation of Cardiac Rhythm," North American Society for Pacing and Electrophysiology (NASPE) 14th Annual Scientific Sessions.
- 5/93 Chairman, "Electropharmacology of Antiarrhythmic Drugs," North American Society for Pacing and Electrophysiology (NASPE) 14th Annual Scientific Sessions.
- 11/93 Moderator, "Mechanisms of Ventricular Tachycardia," American Heart Association 66th Annual Scientific Sessions.
- 5/94 Chairman, "Ventricular Arrhythmias and Syncope," North American Society for Pacing and Electrophysiology (NASPE) 15th Annual Scientific Sessions.
- 5/94 Chairman, "Paroxysmal Atrial Fibrillation-Whom and How to Treat," North American Society of Pacing and Electrophysiology (NASPE) 15th Annual Scientific Sessions.
- 11/94 Moderator, "Atrial Defibrillation Studies," American Heart Association 67th Annual Scientific Sessions.
- 11/94 Chairman, "Arrhythmias in the ICU," American College of Chest Physicians Annual Scientific Sessions.
- 11/95 Moderator, "Implantable Cardioverter/Defibrillator Outcomes," American Heart Association 68th Annual Scientific Sessions.
- 5/97 Moderator, Catheter Ablation-Investigational Techniques. North American Society for Pacing and Electrophysiology (NASPE), 18th Annual Scientific Sessions.
- 11/97 Moderator, Device Therapy-Complications and Follow-up. American Heart Association 70th Scientific Sessions. Orlando, Florida.
- 3/98 Moderator, "Diagnosis and Physiology of Syncope," American College of Cardiology 47th Annual Scientific Session, Atlanta, Georgia.
- 5/99 Chairman, "Current Controversies in Drug Therapy of Arrhythmias," North American Society of Pacing and Electrophysiology, 20th Annual Scientific Sessions, Toronto, Ontario, Canada
- 5/00 Moderator, Debate: "Ablation Should Be Considered A Primary Therapy For Stable VT," North American Society of Pacing and Electrophysiology, 21st Annual Scientific Session, Washington, D.C.
- 5/01 Chairman, "Catheter Ablation of Atrial Fibrillation," North American Society of Pacing and Electrophysiology, 22nd Annual Scientific Sessions, Boston, MA.
- 5/01 Chairman, "Catheter Ablation in the New Millenium I: Basic Concepts," North American Society of Pacing and Electrophysiology, 22nd Annual Scientific Sessions, Boston, MA.

INVITED CHAIRED SESSIONS (cont)

- 5/02 Co-Chairman, "Atrial Therapies in Dual Chamber ICD's". North American Society of Pacing and Electrophysiology, 23rd Annual Scientific Sessions, San Diego, CA.
- 5/02 Co-Chairman, "Issues in ICD Therapy", North American Society of Pacing and Electrophysiology, 23rd Annual Scientific Sessions, San Diego, CA.

BIBLIOGRAPHY

SCIENTIFIC PAPERS

- 1. CARLSON MD, Spooner BS: Nerve outgrowth by dorsal root ganglia in vitro: Stimulation by inhibitors of DNA metabolism in the absence of exogenous nerve growth factor. Differentiation 1979;13:117-23.
- CARLSON MD, Nelson W: Digitalis: Non-Cardiac manifestations of toxicity. J Kans Med Soc 1981; 82:11-3.
- 3. CARLSON MD, Nelson W: Digitalis: Facts and fallacies, use and potential abuse. J Kans Med Soc 1981; 82:355-58.
- 4. CARLSON MD, Freeman CS, Garan H, Ruskin JN: Sensitivity of an automatic external defibrillator for ventricular tachyarrhythmias in patients undergoing electrophysiologic studies. Am J Cardiol 1988; 61:787-90.
- 5. CARLSON MD, Palacios I, Thomas JD, Rottman JN, Freeman CS, Block PC, Ruskin JN, Garan H: Cardiac conduction abnormalities during percutaneous balloon mitral or aortic valvotomy. Circulation 1989; 79:1197-203.
- 6. THE CARDIAC ARRHYTHMIA SUPPRESSION TRIAL (CAST) Investigators: Effect of encainide and flecainide on mortality in a randomized trial of arrhythmia suppression after myocardial infarction. N Engl J Med 1989; 321:406-12.
- 7. CARLSON MD, Schoenfeld MH, Garan H, Choong CY, Davidoff R, Weyman AE, Ruskin JN, Fifer MA: Programmed ventricular stimulation in patients with heart failure and ventricular tachycardia: Effects of acute hemodynamic improvement due to nitroprusside. J Am Coll Cardiol 1989;14:1744-52.
- 8. Furukawa Y, Wallick DW, CARLSON MD, Martin P: Prolongation of cardiac cycle length attenuates negative dromotropic response to selective vagal stimuli. J Auton Nerv Syst 1989; 28:43-50.
- 9. Furukawa Y, Wallick DW, CARLSON MD, Martin P: Cardiac electrical responses to vagal stimulation of fibers to discrete cardiac regions. Am J Physiol 1990;27:H1112-18.
- 10. Elefteriades JA, Batsford WP, Rosenfeld L, Biblo LA, CARLSON MD, Henthom RW, Waldo AL, Geha AS: Evolving patterns in the surgical treatment of malignant ventricular tachyarrhythmias. Ann Thorac Surg 1990; 49:94 100.
- 11. Evans Jr GT, et al. for the PERCUTANEOUS CARDIAC MAPPING AND ABLATION REGISTRY: Predictors of in-hospital mortality after DC catheter ablation of atrioventricular junction. Results of a prospective, international, multicenter study. Circulation 1991; 84:1924-37.
- 12. Geha AS, CARLSON MD, Biblo LA, Waldo AL: Selective surgical approach for atrioventricular reentrant tachycardia. Ann Thorac Surg 1992; 53:200-6.
- 13. Kerber RE, Kienzle MG, Olshansky B, Waldo AL, Wilber D, CARLSON MD, Aschoff AM, Birger S, Fugatt L, Walsh S, Rockwell M, Charbonnier F: Ventricular tachycardia rate and morphology determine energy and current requirements for transthoracic cardioversion. Circulation 1992; 85:158-63.
- 14. CARLSON MD, Geha AS, Hsu J, Martin PJ, Levy MN, Jacobs G, Waldo AL: Selective stimulation of parasympathetic nerve fibers to the human sinoatrial node. Circulation 1992; 85:1311-17.
- 15. Geha AS, Elefteriades Jr JA, Hsu J, Biblo LA, Hoch DH, Batsford WP, Rosenfield LE, CARLSON MD, Johnson NJ, Waldo AL: Strategies in the surgical treatment of malignant ventricular arrhythmias: An eight-year experience. Ann Surg 1992; 216:309-17.

SCIENTIFIC PAPERS (cont)

- 16. The Cardiac Arrhythmia Suppression Trial-II (CAST) Investigators: Effect of the antiarrhythmic agent moricizine on survival after myocardial infarction. N Engl J Med 1992; 327:227-33.
- 17. Gatzoulis, KA, Mitrani R, Biblo LA, Waldo AL, CARLSON, MD: Atrial flutter causes pseudo late potentials on signal averaged electrocardiogram. Am J Cardiol 1993; 71:251-53.
- 18. CARLSON MD, Liebman J: Body surface potential mapping predicts radiofrequency catheter ablation site. Proc 19th Intern'1 Congr Electrocardiol 1993; p 61.
- 19. Smith ML, CARLSON MD, Thames MD: Naloxone does not prevent vasovagal syncope during simulated orthostasis in humans. J Auton Nerv Syst 1993; 45:1-9.
- 20. Mitrani R, Biblo LA, CARLSON MD, Gatzoulis KA, Henthorn RW, Waldo AL: Multiple monomorphic ventricular tachycardia configurations predict failure of antiarrhythmic drug therapy guided by electrophysiologic study. J Am Coll Cardiol 1993; 22:1117-22.
- 21. Denes P, El-Sherif N, Katz R, Capone R, CARLSON MD, Mitchel LB, Ledingham R for the Cardiac Arrhythmia Suppression Trial (CAST) Investigators: Prognostic significance of signal averaged electrocardiogram after revascularization with acute myocardial infarction (CAST sub study). Am J Cardiol 1994; 74:216-20.
- 22. Biblo LA, CARLSON MD: Transcatheter radiofrequency ablation of ventricular tachycardia following surgical correction of Tetralogy of Fallot. PACE 1994; 17:1556-60.
- 23. Calkins HG, Prystowsky EN, CARLSON MD, Young P Tomaselli FG, Lawrence JH: Temperature monitoring during radiofrequency catheter ablation procedures using closed loop control. Circulation 1994; 90:1279-86.
- 24. CARLSON MD, White RD, Trohman RG, Adler LP, Biblo LA, Merkatz KA, Waldo AL: Right ventricular outflow tract ventricular tachycardia: detection of previously unrecognized anatomical abnormalities using cine magnetic resonance imaging. J Am Coll Cardiol 1994; 24:720-27.
- 25. Vijgen J, CARLSON MD: Independent ablation of retrograde and antegrade accessory connection conduction at the atrial and ventricular sites. J Cardiovasc Electrophysiol 1994; 5:782-89.
- 26. Anderson JL, Platia EV, Hallstrom A, Henthom RW, Buckingham TA, CARLSON MD, Carson PE, for the Cardiac Arrhythmia Suppression Trial (CAST) Investigators: Interaction of baseline characteristics with the hazard of encainide, flecainide, and moricizine therapy in patients with myocardial infarction: A possible explanation for the increased mortality in the Cardiac Arrhythmia Suppression Trial (CAST). Circulation 1994; 90:2843-52.
- 27. Biblo LA, CARLSON MD, Waldo AL: Insights into ESVEM; its programmed stimulation protocol may introduce bias when assessing long term anti-arrhythmic drug therapy. J Am Coll Cardiol 1995; 25:1601-4.
- 28. El-Sherif N, Denes P, Katz R, Capone R, Wyse G, CARLSON MD, Reynolds-Haertle R, for the Cardiac Arrhythmia Suppression Trial (CAST) Investigators: Definition of the Best Prediction Criteria of Time Domain Signal-Averaged Electrocardiogram for Serious Arrhythmic Events in the Postinfarction Period. J Am Coll Cardiol 1995; 25:4;908-14.
- 29. Hallstrom A, Anderson J, CARLSON MD, Davies R, Greene L, Kammerling J, Romhilt D, Duff H, Huther M, for the Cardiac Arrhythmia Suppression Trial (CAST) Investigators: Time to arrhythmic, ischemic, and heart failure events: Exploratory analyses to elucidate the mechanisms of adverse drug effects in the Cardiac Arrhythmia Suppression Trial. Am Heart J 1995; 130 (1):71-78.

SCIENTIFIC PAPERS (cont)

- 30. Gatzoulis KA, CARLSON MD, Biblo LA, Rizos I, Gialafos J, Toutouzas J, Waldo, AL: Time domain analyses of the signal averaged electrocardiogram in patients with a conduction defect or bundle branch block. Eur Heart J 1995; 16:1912-19.
- 31. Lee JH, Folsom DL, Biblo LA, CA RLSON MD, Johnson NJ, Waldo AL, Geha AS: Combined internal cardioverter-defibrillator implantation and myocardial revascularization for ischemic ventricular arrhythmias: Optimal cost-effective strategy. Cardiovasc Surg 1995; 3:393-96.
- 32. Gatzoulis K., CARLSON MD, Johnson NJ, Biblo LA, Waldo AL: Regular Wide QRS complex tachycardia during atrial fibrillation in a patient with preexcitation syndrome. J Cardiovasc Electrophysiol 1995; 6:493-97.
- 33. Epstein AE, CARLSON MD, Fogoros RN, Higgins SL, Venditti F.: Classification of Death in Arrhythmia Trials. J Am Coll Cardiol. 1996; 27:433-42.
- 34. Lee JH, Geha AS, Rattehalli NM, Cmolik BL, Johnson NJ, Biblo LA, CARLSON MD, Waldo AL: Salvage of Infected ICDs: Management Without Removal. PACE 1996; 19:437-42.
- 35. Lee JH, Geha AS, Rattehalli NM, Cmolik BL, Johnson NJ, Biblo LA, CARLSON MD, Waldo AL: Evolving strategies in the management of postoperative ICD Infections. PACE 1996; 19: 13:437-42.
- 36. Platt, SB, Vijgen, JM, Albrecht, P., Van Hare, G., CARLSON, MD., Rosenbaum, DS: Occult T wave alternans in long QT syndrome: A marker for sudden cardiac death? J Cardiovasc Electrophysiol 1996; 7(2):144-48.
- 37. Lee JH, Konstantakos AK, Murrell HK, Biblo LA, CARLSON MD, Mackall JA, Geha AS. Late results with concomitant coronary arriery bypass grafting and ICD implantation. J Card Surg 1996; 11(3):165-71.
- 38. Calkins H, Prystowsky MD, Berger RD, Saul SP, Klein LS, Liem BL, Huang SK, Gillette P, Yong P, CARLSON MD, and the Atakr Multicenter Investigators Group: Recurrence of Conduction Following Radiofrequency Catheter Ablation Procedures: Relationship to Ablation Target and Electrode Temperature. J of Cardiovasc Electrophysiology 1996; 7(8):704-12.
- 39. Lee JH, CARLSON MD: Impact of Left Ventricular Ejection Fraction on Survival in Patients with Concomitant Coronary Artery Bypass Grafting and ICD Placement. J Cardiac Surgery 1996; 11:101-7.
- 40. Kerber, RE, Kieso RA, Kienzle MG, Olshansky B, Waldo AL, CARLSON MD, Wilber DJ, Aschoff AM, Birger S, Charbonnier F: Current-Based Transthoracic Defibrillation: A Prospective Multi-Center Trial. Am J Cardiol 1996; 78:1113-18.
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